### PATENT COOPERATION TREATY

From the

INTERNATIONAL SEARCHING AUTHORITY

To: LEE, Young-Pil			PCT	
The Cheonghwa Bldg. 1571-18 Seocho-dong, Seocho-guSeoul137-874Republic of Korea			TTEN OPINION OF THE DNAL SEARCHING AUTHORITY	
			(PCT Rule 43bis.1)	
		Date of mailing (day/month/year) 17	1 HUNE 2005 (17 0C 2005)	
			7 JUNE 2005 (17.06.2005)	
Applicant's or agent's file reference SS-21261-PCT		FOR FURTHER AC	TION se paragraph 2 below	
International application No. PCT/KR2005/000357 International filing date (0 05 FEBRUARY 200 0			Priority date(day/month/year) 17 FEBRUARY 2004 (17.02.2004)	
International Patent Classification (IPC) or both national classification and IPC				
IPC7 H01L 29/78, H01L 21/335, H01L 21/336				
Applicant				
SAMSUNG ELECTRONICS CO., LTD. et al				
1 This oninion contains indications rela	ting to the following item	8.		
This opinion contains indications relating to the following items:      Box No. I Basis of the opinion				
Box No. II Priority				
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
Box No. IV Lack of unity of invention				
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain documents cited				
Box No. VII Certain defects in the international application				
Box No. VIII Certain observations on the international application				
other than this one to be the IPEA and opinions of this International Searchin  If this opinion is, as provided above, c	Authority ("IPEA") except the chosen IPEA has noting g Authority will not be so considered to be a written of appropriate, with amendmentation of 22 months fro	t that this does not apply ified the International Bo considered. opinion of the IPEA, the ents, before the expiration	where the applicant chooses an Authority ureau under Rule 66.1bis(b) that written e applicant is invited to submit to the on of 3 months from the date of mailing	
3. For further details, see notes to Form F	PCT/ISA/220.			

Name and mailing address of the ISA/KR



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# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2005/000357

DOX 170. 1 Dasis of this opinion
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
a. type of material
a sequence listing
table(s) related to the sequence listing
b. format of material
in wirtten format
in computer readable form
c. time of filing/furnishing
contained in the international application as filed.
filed together with the international application in computer readable form.
furnished subsequently to this Authority for the purposes of search.
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additioanl copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:
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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Novelty (N)	Claims 1-37	YES
	Claims NONE	NO
Inventive step (IS)	Claims 1-37	YES
	Claims NONE	NO
Industrial applicability (IA)	Claims 1-37	YES
	Claims NONE	NO

#### 2. Citations and explanations:

1) Reference is made to the following documents:

D5 : KR 2004-75566 A

2) Novelty and Inventive Step

The present application is related to a semiconductor device comprising: a first active region comprising a plurality of slabs formed on a substrate, each slab having a first surface, a second surface facing a direction opposite to the first surface, and a top surface: a second active region contacting at least one end of the slabs on the substrate to connect one another; a gate line on the first surface, the second surface and the top surface of each of the slabs; and a gate dielectric layer interposed between the slabs and the gate line (claims 1-18) and a manufacturing method thereof (claims 19-37).

Each of documents mentioned in 1) discloses semiconductor devices having multi gates. But, none of the documents D1 to D5 discloses a semiconductor device in which a second active region(140a) contacting at least one end of the slabs on the substrate to connect one another is formed.

By dividing the active region into a first and a second active regions in which the second active region is formed to connect each other of the slabs, a rounding phenomenon or a 'not open' phenomenon can be avoided in this invention.

As mentioned above, it is considered that D1-D5 are to be little relevant to the semiconductor device (claims 1-18) and the manufacturing method the same (claims 19-37).

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Supplemental Box				
In case the space in any of the preceding boxes is not sufficient.  Continuation of:				
BOX V				
Compared with the prior art as cited in the International Search Report, the present invention(claims 1-37) is believed to be novel and to involve an inventive step under PCT Article 33(2) and 33(3).				
3) Industrial Applicability And the present invention has industrial applicability under PCT Article 33(4).				